

BASIC COMPONENTS IN SAM

- CLIENT: A PROCESS THAT HAS DATA PACKETS TO SEND.
- SEQUENCER: SERIALIZE DATA PACKETS SENT TO THE GROUP.
- COMMIT SERVER: STORE THE ORDERING INFORMATION FOR EACH DATA PACKET.
- DATA SERVER: STORE DATA PACKETS.
- CHECKPOINT SERVER:

-DO MESSAGE CONSOLIDATION.

NOTE: LOGIC/

LOGICAL CONCEPT ONLY.

ASSUMPTIONS: UNIQUE PROCESS ID

UNIQUE DATA PACKET ID (E.G. PROCESS ID + SEQ)











FIG. 1A

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CM CM

(3)

CM1

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CL2

SENDING A DATA PACKET IN SAM

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FIG. 1B

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(3) COMMIT SUBMIT (5) COMMIT ACK

(2) DATA REPORT (5) COMMIT

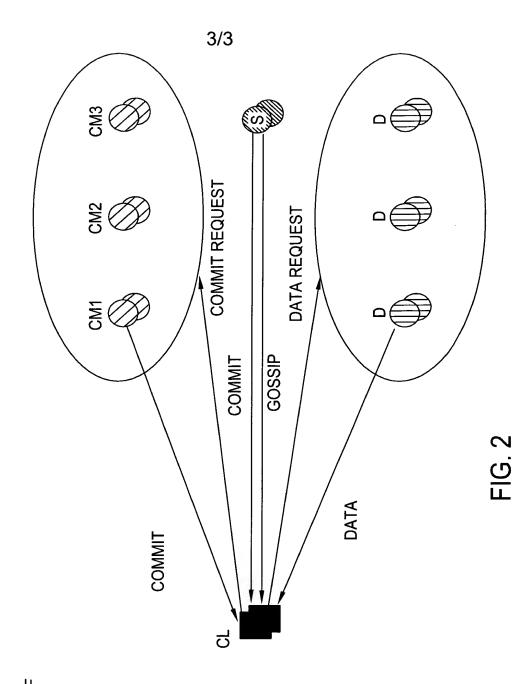
(1) DATA

SW 2

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ASYNCHRONOUS COMMUNICATION AND TOTAL ORDERING?

- DELIVER PKTS IN ORDER OF COMMIT NUMBER (CONTINUOUS!)
- IF A PKT IS MISSING, GET ITS PKT ID FROM COMMIT SERVERS, THEN GET THE PKT FROM DATA SERVERS.
- GUARANTEED ATOMICITY
 AND TOTAL ORDERING! NO
 NEED TO GET RESPONSE
 FROM OTHER CLIENTS.



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